

REMOVEABLE ESD FOR IMPROVING I/O PIN BANDWIDTH**ABSTRACT**

The present invention provides for disconnecting a capacitive path from a device when the capacitive path is no longer needed. Disconnecting a capacitive path when it is
5 no longer needed is beneficial because the existence of a capacitive path limits the speed of the protected device. The device is separated from the capacitive path as a function of the current between the IO pad and a control device.